

Safety Data Sheet

According to:

1907/2006/EC, on the Registration, Evaluation, Authorisation and Restriction of Chemicals .

98/24/EC, on the protection of workers from the risk related to chemical agents at work

1272/2008/EC, on classification, labelling and packaging of substances and mixtures

Printing date: 01-11-2022

Reversion date:: 01-11-2022

Version: 1

1 Identification of the substance/preparation and of the company/undertaking

1.1 Trade name: Dulon Teak Protector 43

1.2 Use of the substance/preparation: colorless coating solvent based for wood, wood composite and natural stone with water and oil repelling properties. The coating layer avoids the attachment of algae and has UV protective properties.

Identified uses:

- Protective agent for wood
- Protective agent for stone

1.3 Company: Dulon Marine

Energieweg 12

2382 NJ Zoeterwoude

The Netherlands

2 Hazards identification

2.1 Classification of the mixture

as to Directive 1272-2008-EC the mixture has to be classified as hazardous:

flammable liquid category 3 with H226: Flammable liquid and vapor.

mixture with: aspiration toxicity category 1 with H304: may be fatal if swallowed and enters airways.

Acute aquatic toxicity category 2

Chronic aquatic toxicity category 2 with H411: toxic to aquatic life with long lasting effects.

2.2 label elements

labelling as to 1272-2008-EC

hazard pictograms:



signal word:

Danger

Hazard statements:

H226: Flammable liquid and vapor

H304: may be fatal if swallowed and enters airways.

H411: toxic to aquatic life with long lasting effects.

EUH066: Repeated exposure may cause skin dryness or cracking.

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Precautionary statements:

P210: Keep away from heat/sparks/open flames/hot surfaces. — No smoking.

P243: Take precautionary measures against static discharge.

P273: Avoid release to the environment

P280: Wear protective gloves/eye protection

P301+P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

P303+P353: – IF ON SKIN (or hair): Rinse skin with water/shower

P331: Do NOT induce vomiting

P332+P313: If skin irritation occurs: Get medical advice/attention

P370+P378: In case of fire: Use CO2, foam, dry powder, water spray

P391: Collect spillage

P403: Store in a well-ventilated place

P501: Dispose of contents/container in accordance with applicable local laws

2.3 Other hazards

Physical / Chemical Hazards:

Material can accumulate static charges which may cause an ignition. Material can release vapours that readily form flammable mixtures. Vapour accumulation could flash and/or explode if ignited.

Health Hazards:

Repeated exposure may cause skin dryness or cracking. Mildly irritating to skin. May be irritating to the eyes, nose, throat, and lungs.

Environmental Hazards:

No significant hazards. Material does not meet the criteria for PBT or vPvB in accordance with REACH Annex XIII.

3 Composition/information on ingredients

3.1 Substances: not applicable. This product is a mixture.

3.2 Mixtures:

Composition of the mixture :

Bestanddelen	CAS-N.	EC-N.	Registration-index	Conc.	GHS_CLP classification	H-phrases
F-polymers	-	-	-	1,3 %	Eye.irrit.2	H319
N-butylacetate	123-86-4	204-658-1	01-2119485493-29	3,8 %	Flam.liq.3 STOT SE3	H226 EUH066 H336
4,5-dichloor-2-octyl-	64359-	264-	64359-81-5	0,12	Acute tox.4 oral	H302

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2H-isothiazole-3-one	81-5	843--8		%	Acute tox.4 dermal Skin sens.1 A STOT SE 3 Skin corr.1C Aquatic acute 1 Acute tox. 2 inhal	H312 H317 H335 H314 H400 H330
Benzene, C10-13-alkylderivates	67774-74-7	267-051-0	01-2119489372-31-xxxx	0,95 %	Asp.tox.1	H304
2-(2-butoxyethoxy)ethanol	112-34-5	203-61-6	01-2119475104-44	1,8 %	Eye irrit.2	H319
Terbutryn	886-50-0	212-950-5		0,2 %	Aquatic acute 1 Aquatic chronic 1 Acute tox.4 oral Skin sens.1B	H400 H410 H302 H317
2-octyl-2H-isothiazole-3-one	26530-20-1	247-761-7	613-112-00-5	0,2 %	Acute tox.3 dermal Acute tox.3 inhal. Skin corr.1B Eye damm.1 Aquatic acute 1 Aquatic chronic 1 Acute tox.4 oral Skin sens.1A	H311 H331 H314 H318 H400 H410 H302 H317
Alkanes,C11-C12, iso-alkanes, <2 % aromates	Rem. 2	918-167-1 Rem. 1	01-211947 2146-39	<85 %	Asp.tox.1 Flam.liq.3	H304 EUH066 H226

Rem. 1: each mention of EC-numbers beginning with a "9" are provisional attributed by ECHA in anticipation of the official EC inventory number.

Rem.2: the CAS number 90622-97-4 is mentioned in countries falling outside the EC legislation.

For the complete text of the H-phrases see section 16;

Concentrations in weight %.

EU-H phrases are supplementary European hazard indications

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4 First aid measures

4.1. Description of first aid measures

Inhalation:	Remove from further exposure. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, assist ventilation with a mechanical device or use mouth-to-mouth resuscitation.
Skin contact:	Wash contact areas with soap and water. Remove contaminated clothing. Launder contaminated clothing before reuse.
Eye contact:	Remove contact lenses. Flush thoroughly with water. If irritation occurs, get medical assistance.
Ingestion:	Seek immediate medical attention. Do not induce vomiting.

4.2. Most important symptoms and effects, both acute and delayed

No important symptoms or effects.

4.3. Indication of any immediate medical attention and special treatment

if ingested, material may be aspirated into the lungs and cause chemical pneumonitis. Treat appropriately.
The mixture contains a micro-emulsion of waterborne partly fluorated copolymers. By this the inhalation of aerosols or the atomised product can cause an irritation of the bronchial tubes. The gravity of the disorder and the symptoms may last some hours, days or weeks depending on the degree of exposure. It is important to take the necessary measures to avoid exposition to the atomised product by construction adaptations and in particular a good exhaust system.

5 Fire fighting measures

5.1. Extinguishing media

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Suitable Extinguishing Media:

Use water fog, foam, dry chemical or carbon dioxide (CO₂) to extinguish flames.

Unsuitable Extinguishing Media:

Straight streams of water

5.2. Special hazards arising from the substance or mixture:

Hazardous Combustion Products: Smoke, Fume, Incomplete combustion products, Oxides of carbon

5.3. Advice for fire fighters

Fire Fighting Instructions:

Evacuate area. Prevent run-off from fire control or dilution from entering streams, sewers or drinking water supply. Fire-fighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA). Use water spray to cool fire exposed surfaces and to protect personnel.

Unusual Fire Hazards:

Hazardous material. Firefighters should consider protective equipment indicated in Section 8.

Flammability properties:

Flash Point [Method]: >40°C (104°F) [ASTM D-93]
Upper/Lower Flammable Limits (Approximate volume % in air): UEL: 7.0 LEL: 0.6 [Extrapolated]
Autoignition Temperature: >200°C (392°F) [Extrapolated]

6 Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

notification procedures:

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

Protective measures:

Avoid contact with spilled material. Warn or evacuate occupants in surrounding and downwind areas if required, due to toxicity or flammability of the material. See Section 5 for fire fighting information. See the Hazard Identification Section for Significant Hazards. See Section 4 for First Aid Advice. See Section 8 for advice on the minimum requirements for personal protective equipment. Additional protective

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measures may be necessary, depending on the specific circumstances and/or the expert judgment of the emergency responders.

6.2. Environmental precautions

Large Spills:

Dyke far ahead of liquid spill for later recovery and disposal. Prevent entry into waterways, sewers, basements or confined areas.

6.3. Methods and material for containment and cleaning up

Land Spill:

Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop leak if you can do so without risk. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material. Prevent entry into waterways, sewer, basements or confined areas. A vapour-suppressing foam may be used to reduce vapour. Use clean non-sparking tools to collect absorbed material. Large Spills: Water spray may reduce vapour, but may not prevent ignition in enclosed spaces. Recover by pumping or with suitable absorbent.

Water Spill:

Stop leak if you can do so without risk. Eliminate sources of ignition. Warn other shipping. If the Flash Point exceeds the Ambient Temperature by 10 deg C or more, use containment booms and remove from the surface by skimming or with suitable absorbents when conditions permit. If the Flash Point does not exceed the Ambient Air Temperature by at least 10C, use booms as a barrier to protect shorelines and allow material to evaporate. Seek the advice of a specialist before using dispersants.

Water spill and land spill recommendations are based on the most likely spill scenario for this material; however, geographic conditions, wind, temperature, (and in the case of a water spill) wave and current direction and speed may greatly influence the appropriate action to be taken. For this reason, local experts should be consulted. Note: Local regulations may prescribe or limit action to be taken.

6.4. References to other sections:

See section 5 for information concerning fire fighting; section 2 for important

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hazards; section 4 for first aid; section 6 for personal protection equipment. See also Sections 8 and 13.

7 Handling and storage

7.1. Precautions for safe handling of the mixture:

Avoid contact with skin. Prevent small spills and leakage to avoid slip hazard. Material can accumulate static charges which may cause an electrical spark (ignition source). Use proper bonding and/or ground procedures. However, bonding and grounds may not eliminate the hazard from static accumulation. Consult local applicable standards for guidance. Additional references include American Petroleum Institute 2003 (Protection Against Ignitions Arising out of Static, Lightning and Stray Currents) or National Fire Protection Agency 77 (Recommended Practice on Static Electricity) or CENELEC CLC/TR 50404 (Electrostatics - Code of practice for the avoidance of hazards due to static electricity).

Loading/Unloading Temperature:

Ambient

Transport Temperature:

Ambient

Static Accumulator:

The mixture is an electric conductor

7.2. Conditions for safe storage, including any incompatibilities:

The container choice, for example storage vessel, may effect static accumulation and dissipation. Keep container closed. Handle containers with care. Open slowly in order to control possible pressure release. Store in a cool, well-ventilated area. Storage containers should be earthed and bonded. Fixed storage containers, transfer containers and associated equipment should be earthed and bonded to prevent accumulation of static charge.

Storage Temperature:

Ambient

Suitable Containers/Packing:

1000 l IBC and smaller packings.

Suitable Materials and Coatings :

Inorganic Zinc Coatings; polyethylene; polypropylene; Carbon Steel; Stainless Steel.

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Unsuitable Materials and Coatings:

Vinyl Coatings; Natural Rubber; Butyl Rubber; Ethylene-propylene-diene monomer (EPDM); Polystyrene

7.3. Specific end uses:

Section 1 informs about identified end-uses.

8 Exposure controls/personal protection

8.1. Control paramters

Exposure limit values

Alkanes, C11-C12, iso-alkanes,
< 2 % aromates

177 ppm or 1200 mg/m³, source Exxon-Mobil

8.2. Exposure controls

Engineering controls

The level of protection and types of controls necessary will vary depending upon potential exposure conditions.

Control measures to consider:

Adequate ventilation should be provided so that exposure limits are not exceeded. Use explosion-proof ventilation equipment.

Personal protection:

Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilation. Information on the selection of protective equipment for use with this material, as provided below, is based upon intended, normal usage.

Respiratory Protection:

If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate. Respirator selection, use, and maintenance must be in accordance with regulatory requirements, if applicable. Types of respirators to be considered for this material include:

Half-face filter respirator Type A brown, for organic vapors/solvents. For high airborne concentrations, use an approved supplied-air respirator.

Hand Protection:

Any specific glove information provided is based on published literature and glove manufacturer data. Glove suitability and breakthrough time will differ depending on the specific use conditions. Contact the glove

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Eye Protection:	manufacturer for specific advice on glove selection and breakthrough times for your use conditions. Inspect and replace worn or damaged gloves. The types of gloves to be considered for this material include: Chemical resistant gloves are recommended. Nitrile, Viton minimum thickness 0,38 mm, minimum breakthrough times 480 minutes. The CEN standards EN 420 and EN 374 provide general requirements and lists of glove types. If contact is likely, safety glasses with side shields are recommended.
Skin and Body Protection:	Any specific clothing information provided is based on published literature or manufacturer data. Chemical resistant clothing is recommended.
Specific Hygiene Measures:	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.
Environmental controls	Comply with applicable environmental regulations limiting discharge to air, water and soil. Protect the environment by applying appropriate control measures to prevent or limit emissions.

9 Physical and chemical properties

9.1 information on basic physical and chemical properties

Appearance:	liquid
Color:	light brown
Odor:	limited, hydrocarbons
pH:	n.a.
Freezing point (°C):	<-50° C
Stability:	stable until boiling point
Boiling point (°C):	stretch from 150 °C to 220 °C
Specific gravity (Kg/dm³):	0,721 – 0.801 Kg/ dm ³ at 15 °C
Vapour pressure (kPa):	0,07 kPa at 20 °C, <0.5 kPa at 25 °C

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Solubility in water	limited, <0,1 wt. %
Viscosity:	1 – 2,3 mm ² /s at 20°C
Flash point (°C):	> 40 °C
Auto flammability (°C):	> 200 °C
Explosion limits %	
- lower (°C):	0,6 vol. %
- upper (°C):	7,0 vol. %

9.2 Other information

Application temperature:	0° C - 35 °C
Specific density:	0.756 Kg/dm ³ at 15 °C

10 Stability and reactivity

10.1 Reactivity	the fluor component will polymerize in time
10.2 Chemical stability:	Stable under normal conditions
10.3 Possibility of hazardous reactions:	unknown
10.4 Conditions to avoid:	Open flames and high energy ignition sources.
10.5 Incompatible materials:	Strong oxidizers
10.6 Hazardous decomposition products:	Material does not decompose at ambient temperatures.

11 Toxicological information

11.1. Information on toxicological effects

Inhalation:	Acute toxicity:rat, cavia, ATE mixture calculated: 3.2. Classification acute tox.4 with H332.
Ingestion:	acute toxicity: minimally toxic . After swallowing a few drops of liquid may reach the lungs causing pneumonia.
Skin irritation:	Acute toxicity, rat, LD50>5000 mg/Kg Repeated or prolonged contact may cause dehydration or degreasing of the skin. Minimum toxic.
Eye irritation:	Can cause eye irritation but will not damage the eye tissue.

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Carcinogenic:	Testscores or other study results do not meet criteria for classification.
Reproductive Toxicity:	Not expected to be a reproductive toxicant.
Lactation:	Not expected to cause harm to breast-fed children.
Specific Target Organ Toxicity (STOT)	
Single Exposure:	Not expected to cause organ damage from a single exposure.
Repeated Exposure:	Not expected to cause organ damage from prolonged or repeated exposure.

12 Ecological information

The information given is based on data available for the material, the components of the material, and similar materials.

12.1. Toxicity:	classified as aquatic acute 2, harmful to aquatic life. Classified as aquatic chronic 2, toxic to aquatic life with long lasting effects.
12.2. Persistence and degradability	
Biodegradation:	Mixture -- Expected to be inherently biodegradable
Hydrolysis:	Transformation due to hydrolysis not expected to be significant.
Photolysis:	Transformation due to photolysis not expected to be significant.
Atmospheric Oxidation:	Expected to degrade rapidly in air
12.3. Bioaccumulation potential:	no data available.
12.4. Mobility in soil:	mixture -- Highly volatile, will partition rapidly to air. The fluor component can break away from the sediment and wastewater solids.
12.5. Persistence, bioaccumulation and toxicity	This product is not, or does not contain, a substance that is a PBT or a vPvB.
12.6. Other adverse effects	No adverse effects are expected.
Other ecological information	as to 1999/13/EC the mixture is classified as an organic volatile substance, VOS contain 693.4 g/l

ECOLOGICAL DATA Ecotoxicity

The data mentioned are valable for Alkanes, C11-C12, isoalkanes, < 2% aromates, concentration in the mixture: 85 %.

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Test	Duration	Organism Type	Test Results
Aquatic - Acute Toxicity	48 hour(s)	Daphnia magna	EL0 1000 mg/l *
Aquatic - Acute Toxicity	72 hour(s)	Pseudokirchneriella subcapitata	EL0 1000 mg/l *
Aquatic - Acute Toxicity	72 hour(s)	Pseudokirchneriella subcapitata	NOELR 1000 mg/l *
Aquatic - Acute Toxicity	96 hour(s)	Oncorhynchus mykiss	LL0 1000 mg/l *
Aquatic - Chronic Toxicity	21 day(s)	Daphnia magna	NOELR \geq 1 mg/l *

Persistence, Degradability and Bioaccumulation Potential

Media	Test Type	Duration	Test Results: Basis
Water	Ready Biodegradability	28 day(s)	Percent Degraded 31.3 : similar material

*: data for similar materials

13 Disposal considerations

Disposal recommendations based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.

13.1. Waste treatment methods

Dispose in accordance with applicable international, national and local laws, ordinances and statutes.

Contaminated packaging:

The used package is only meant for the packaging of the product. After usage clean out the package. The empty package can be returned to a local recycler in accordance with national and local laws.

Waste code number:

The waste code number has to be determined in accordance with the European waste code list of 2000/532/EC in consultation with the waste processor/ manufacturer/ government.

Empty Container Warning (where applicable):

Empty containers may contain residue and can be dangerous. Do not attempt to refill or clean containers without proper instructions. Empty drums should be completely drained and safely stored until appropriately

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reconditioned or disposed. Empty containers should be taken for recycling, recovery, or disposal through suitably qualified or licensed contractor and in accordance with governmental regulations. DO NOT PRESSURISE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.

14 Transport information

Transport information

Road/ Railway (ADR/RID)

14.1 UN number:	UN 3295
14.2 Proper Shipping Name:	hydrocarbons, liquid, N.O.S, flaspoint 40 °C
14.3 Transport Hazard Class(es):	3
14.4 Packing Group:	III
14.5 Environmental Hazards:	none
14.6 Special Precautions for users:	
Classification Code:	F1
Label(s) / Mark(s):	3
Hazard ID Number:	30
Hazchem EAC:	3Y

Sea (IMDG)

14.1 UN number:	UN 3295
14.2 Proper Shipping Name:	hydrocarbons, liquid, N.O.S, flaspoint 40 °C
14.3 Transport Hazard Class(es):	3
14.4 Packing Group:	III
14.5 Marine pollutant:	no
14.6 Special Precautions for users:	
EMS Number:	F-E, S-D

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Transport document name :	UN3295, HYDROCARBONS, LIQUID, N.O.S., 3, PG III, (flashpoint 40°C)
Air- IATA	
14.1. UN Number:	3295
14.2. UN Proper Shipping Name:	HYDROCARBONS, LIQUID, N.O.S. flashpoint 40 °C
14.3. Transport Hazard Class(es):	3
14.4. Packing Group:	III
14.5. Environmental Hazards:	None
14.6. Special Precautions for users:	
Label(s) / Mark(s):	3
Transport Document Name:	UN3295, HYDROCARBONS, LIQUID, N.O.S., 3, PG III flashpoint 40 °C

15 Regulatory information

Regulatory status and applicable laws and regulations

15.1. Safety, health and environmental regulations/ legislation specific for the substance or mixture.

Applicable EU Directives and Regulations:

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15.2. Chemical safety assesment

REACH Information: A Chemical Safety Assessment has been carried out for one or more substances present in the material.

16 Other information

Page SDS:	right corner, first line
Revision SDS:	right corner, second line
Revision date:	right corner, third line
Date previous revision:	right corner, fourth line
Writer:	Didier Desschans
Revised parts:	changes with reference to previous versions are market with “#”.
Information sources:	Original SDS and specifications from manufacturers.

Key to the H-phrases contained in section 3 of this document. (for information only):

EUH066: Repeated exposure may cause skin dryness or cracking.

H226: Flammable liquid and vapor.

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H302: Harmful if swallowed

H304: May be fatal if swallowed and enters airways.

H311: Toxic in contact with skin

H312: Harmful in contact with skin

H314: Causes severe skin burns and eye damage

H316: Causes mild skin irritation.

H317: May cause an allergic skin reaction

H318: Causes serious eye damage

H319: Causes serious eye irritation

H330: Fatal if inhaled

H331: Toxic if inhaled

H335: May cause respiratory irritation

H336: May cause drowsiness or dizziness

H400: Very toxic to aquatic life

H410: Very toxic to aquatic life with long lasting effects

List of abbreviations and acronyms that could be (but not necessarily are) used in this safety data sheet:

Acute tox. 2 inhal : acute toxicity category 2 inhalation

Acute tox. 3 inhal : acute toxicity category 3 inhalation

Acute tox. 3 : Acute toxicity category 3

Acute tox. 4 : Acute toxicity category 4

ADR : Accord européen relatif au transport international des marchandises Dangereuses par Route

Asp. Tox. 1 : aspiration toxicity category 1

ASTM : american standard testing material

ATE : Acute Toxicity Estimates

CAS : Chemical Abstract Service

CO₂ : carbon dioxide

EC : European community

ECHA : European Chemican Agency

ELO : Effective Loading

EmS : Emergency Schedule

Eye damm. 1 : eye dammage category 1

Eye irrit. 2 : eye irritant category 2

Flam.liq.3 : flammable liquid category 3

F-polymers : Fluor-polymers

H: Hazard statement

IATA : International Air Transport Association

IBC : Intermediate Bulk Container

IMDG : International Maritime Dangerous Goods code

LD : lethal dose

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LEL : lower explosion limit

LLO : **L**ethal **L**oading

n.a. : not applicable

NOELR : **N**o **O**bservable **E**ffect **L**oading **R**ate

N.O.S. :not otherwise specified

PBT : **P**ersistent **B**ioaccumulative **T**oxic

P: **P**recautionary statement

PG : packing group

REACH : **R**egistration, **E**valuation, **A**uthorisation and **R**estriction of **C**hemicals

Rem. : remark

RID : **R**egulations concerning the **I**nternational carriage of **D**angerous goods by rail

SDS : safety data sheet

Skin corr. 1C : Skin corrosion 1C

Skin corr. 1B : Skin corrosion 1B

Skin sens. 1A : skin sensitivity category 1A

Skin sens. 1B : skin sensitivity category 1B

STOT SE 3 : **S**pecific **T**arget **O**rgan **T**oxicity **S**ingle **E**xposure

UEL : upper explosion limit

UN: United Nations

VOS : **V**olatile **O**rganic **S**ubstance

vPvB : very **P**ersistent and very **B**ioaccumulating

Further information

This version replaces all previous versions.

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